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APPLICATION NO	D.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/668,479		09/22/2003	Lawrence Carl Smith	2002B132/2	2938	
23455	7590	06/15/2006		EXAMINER		
EXXON	MOBIL (CHEMICAL COMPA	RABAGO, ROBERTO			
5200 BAY		RIVE		ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/668,479	SMITH ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Roberto Rábago	1713	
Period fo	The MAILING DATE of this communicat	ion appears on the cover sheet v	vith the correspondence address	
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply with the set or extended period for reply by the Office later than three months after the provided by the Office later than the provided by the Office later than the provided by the Office later than the provided by the	ING DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a ation. y period will apply and will expire SIX (6) MC by statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication NBANDONED (35 U.S.C. § 133).	
Status				
2a) <u></u> 	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for a closed in accordance with the practice upon the closed in t	☑ This action is non-final. allowance except for formal ma	•	;
Dispositi	on of Claims			
5)□ 6)⊠ 7)⊠ 8)□ Applicati 9)□	Claim(s) 1-38 is/are pending in the apple 4a) Of the above claim(s) 19-22 is/are well allowed. Claim(s) is/are allowed. Claim(s) 1-16,18 and 23-37 is/are reject claim(s) 17 and 38 is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the Example of the drawing(s) filed on is/are: a) Applicant may not request that any objection is a specification in the specification of the control of the drawing(s) filed on is/are: a)	ithdrawn from consideration. ed. and/or election requirement. caminer. accepted or b) objected to to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to by			1).
	inder 35 U.S.C. § 119			
12) [a)[Acknowledgment is made of a claim for the All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International see the attached detailed Office action for	uments have been received. uments have been received in a ne priority documents have been Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date	Paper No /SB/08) 5) Notice of	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)	

DETAILED ACTION

1. Prior rejection under 35 USC 112 is withdrawn. In view of Applicants' statements in combination with the cited sections of the specification, the claims are understood to implicitly require a polymerization step upon contact of catalyst and monomer in a polymerization reactor. Regarding conduit replacement, this step is understood to be independent of the polymerization process; however, it is a required step in the overall process which includes, at some point, a polymerization step.

Claim Rejections - 35 USC § 103

2. Claims 1-3, 11, 15, 16, 23, 24, 32, 36 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carlson et al. (US 2,508,744) for the reasons set forth in item 5 of the Office letter mailed 1/26/2006.

Applicant's arguments filed 3/24/2006 have been fully considered but they are not persuasive. Applicants incorrectly state that the reference includes only one propylene feed; the primary propylene supply provides the first stream, and recycle line 10 provides the second stream (see Figure). Applicants further argue that the reference does not recognize the problem for which the claimed invention provides a solution; however, there is nothing in the claims which requires a plugging step, and there is nothing in the reference which indicates that plugging is a problem. Accordingly, applicants' argument is not relevant to this rejection. Applicants' final argument is ineffective because it presents arguments for features which are not present in the

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claims. Applicants have expressly stated in their remarks that "the replacement of the first section of conduit may occur at any time before, during or after polymerization occurs," and is therefore not associated with any ongoing polymerization. Accordingly, the fact that the reference does not disclose an apparatus which permits one to perform certain maintenance procedures "while polymerization is ongoing" is irrelevant.

3. Claims 1-16, 18, and 23-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shamshoum et al. (US 6,239,058).

The reference discloses in Figure 1 (see also col. 10) a propylene polymerization system comprising a catalyst/propylene inlet (line 16) and second propylene inlet (line 19). The catalyst comprises a supported metallocene in mineral oil (abstract; col. 2, lines 19-38; Examples I-XIV). The reference figure does not include valve locations, apparently because the intention is to emphasize the basic flow path. However, the inclusion of valves in each of the flow streams would be immediately envisaged by one of ordinary skill in the art because placement of valves in flow streams is nothing more than elementary process control. Although the reference has not disclosed the properties of the oil, the claimed properties would appear to be inherent because both the reference and applicants have used entirely conventional mineral oil.

Although the reference does not disclose disassembly/reassembly of the conduit, one of ordinary skill in the art would be motivated to perform such tasks during routine maintenance, cleaning, and upgrading of the conduit and supporting polymerization apparatus.

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4. Claims 17 and 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art cited on this record has not disclosed or reasonably suggested a polymerization method using a ZN catalyst in a system including the required plumbing configuration.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rábago whose telephone number is (571) 272-1109. The examiner can normally be reached on Monday - Friday from 8:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roberto Rábago Primary Examiner Page 4

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